1. Description

1.1 Background information

The StemMACS MSC Expansion Media Kit XF (xeno-free) is an optimized and standardized complete medium for the reproducible and reliable generation and expansion of mesenchymal stem cells (MSCs) from human bone marrow (BM) samples or other tissue sources. As MSCs appear at relatively low frequency in human BM samples and other tissues, their in vitro propagation is often necessary in order to obtain sufficient cell numbers for further experiments, such as in vivo transplantation studies in animals or in vitro differentiation or functional characterization. The formulation of StemMACS MSC Expansion Media Kit XF was designed to efficiently support the expansion of MSCs in vitro while maintaining their differentiation potential. The media formulation is xeno- and serum-free and is manufactured under strictly controlled conditions using ingredients of the highest quality. StemMACS Expansion Media Kit XF offers consistent lot-to-lot performance and optimal conditions for the cultivation of MSCs.

1.2 Applications

- Expansion of MSCs from human bone marrow or other tissue sources.

2. Protocol to prepare complete medium

Before StemMACS MSC Expansion Media Kit XF can be used in cell culture, the two kit components need to be mixed according to the following protocol to obtain the complete medium.

1. Thaw StemMACS MSC Expansion Media XF Supplement at 37 °C prior to use. Thawed material must be used immediately or aliquoted to the preferred sample volume, for example, 1.4 mL. Store aliquots at –20 °C. Avoid additional freeze-thaw cycles.

2. To obtain the complete medium add 1.4 mL StemMACS MSC Expansion Media XF Supplement to 100 mL StemMACS MSC Expansion Media XF, basal. The media is ready-to-use now. Use the complete medium within 1 week when stored at 2–8°C. For longer storage, prepare aliquots and store at –20 °C.

A detailed MSC cell culture protocol is available at www.miltenyibiotec.com.


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